

## Applications

1. A convenience store has been keeping track of its popcorn sales.

**Popcorn Sales**

Time	Total Bags Sold
6:00 A.M.	0
7:00 A.M.	3
8:00 A.M.	15
9:00 A.M.	20
10:00 A.M.	26
11:00 A.M.	30
noon	45
1:00 P.M.	58
2:00 P.M.	58
3:00 P.M.	62
4:00 P.M.	74
5:00 P.M.	83
6:00 P.M.	88
7:00 P.M.	92



- Make a coordinate graph of the data in the table above. Which variable did you put on the  $x$ -axis? Why?
- Describe how the number of bags of popcorn sold changed during the day.
- During which hour did the store sell the most popcorn? During which hour did it sell the least popcorn?

**active math**  
**online**

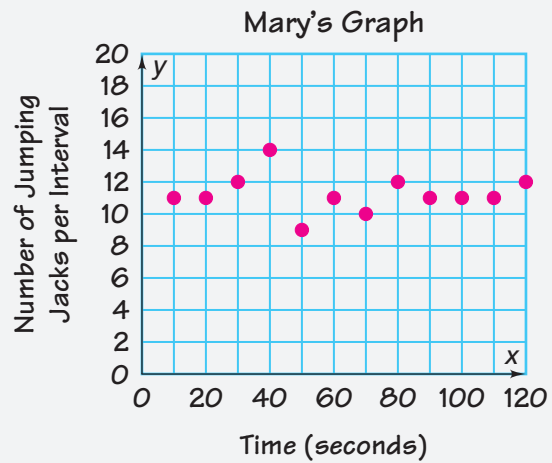
For: Climbing Monkeys  
Activity

Visit: [PHSchool.com](http://PHSchool.com)

Web Code: and-1101

2. At the right is a graph of jumping jack data. (On the  $x$ -axis, 20 means the interval from 0 seconds to 20 seconds, 40 means the interval 20 seconds to 40 seconds, and so on.)

- What does the graph tell you about Mary's experiment?
- How is this graph different from the graph you made in Problem 1.2?
- What total number of jumping jacks did Mary do?



3. After doing the jumping jack experiment, Andrea and Ken compare their graphs. Because the points on his graph are higher, Ken said he did more jumping jacks in the 120 seconds than Andrea did. Do you agree? Explain.

